

Amendments to the Claims

Listing of Claims:

Claims 1-9 (canceled).

Claim 10 (new): A method for packet-switched data transmission in a self-organizing radio network with at least a first and a second radio coverage area, and at least one mobile communication device for each radio coverage area, which comprises:

- operating a first device in the first radio coverage area and a second device in the second radio coverage area, for centrally controlling an assignment of transmission channels assigned to the respective radio coverage area;

- operating in each of the first and second radio coverage areas mobile communication devices forming intermediate stations for forwarding to the second radio coverage area data originating from the first radio coverage area; and

- thereby operating the first central control device to control the transmission channels available to the first radio coverage area, both for transmitting data between the first central control device and the intermediate station and for transmitting data between the intermediate station and the second central control device.

Claim 11 (new): The method according to claim 10, which comprises transmitting control data appended in the transmission with the first central control device on a separate transmission channel.

Claim 12 (new): The method according to claim 11, wherein the separate transmission channel is an FCH channel.

Claim 13 (new): The method according to claim 12, which comprises, if the FCH channel cannot be received by the second central control device, appending with the intermediate station control data for the second central control device to the data to be forwarded.

Claim 14 (new): The method according to claim 10, which comprises adding to the control data at least one of an address of the second central control device and a format of the data to be forwarded.

Claim 15 (new): The method according to claim 10, which comprises analyzing the control data in the intermediate station.

Claim 16 (new): The method according to claim 10, which comprises analyzing the control data in the second central control device.

Claim 17 (new): The method according to claim 10, which comprises operating the radio network using central medium access control in accordance with a standard selected from the group consisting of IEEE 802.11 standard, IEEE 802.16, Hiperlan/2, and a standard derived therefrom.

Claim 18 (new): An intermediate station configured for carrying out the method according to claim 10.

Claim 19 (new): A central control device configured for carrying out the method according to claim 10.